



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/883,139	06/15/2001	James A. Lynn	01-023	8289

7590

02/03/2004

PETER P. SCOTT
INTELLECTUAL PROPERTY LAW DEPARTMENT
LSI LOGIC CORPORATION, M/S D-106
1551 McCARTHY BLVD.
MILPITAS, CA 95035

EXAMINER

CHEN, ALAN S

ART UNIT	PAPER NUMBER
----------	--------------

2182

DATE MAILED: 02/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/883,139

Applicant(s)

LYNN ET AL.

Examiner

Alan S Chen

Art Unit

2182

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

EXAMINER'S AMENDMENT

Response to Arguments

1. Applicant argues that No. 6,044,411 to Berglund, in Column 8, lines 13-21 along with the rest of the specification, do not disclose a loop, a loop map, or allowing mapping of a previously failed mapping of an enclosure. Examiner asserts that the network described by Berglund expressly discloses a loop. Column 6, lines 1-7 cites "...the SPCN network could also be in the form of two chains with the CEC enclosure at the hub, or in a *loop form*, within the spirit of the invention. Further, Column 14, paragraph 3 cites "Typically, a multi-enclosure (multi-tower) system is interconnected by a high speed bus *in a loop* or point-to-point configuration".
2. Applicant argues that Column 8, lines 13-21 only teaches changing a logical address if an error is reported and therefore does not teach, disclose or suggest loop, a loop map, or allowing mapping of a previously failed mapping of an enclosure. Examiner respectfully disagrees with applicant. Again, Column 8, lines 13-21 recites "...because of the writing of the physical location into NVRAM, if a device error is reported prior to a reconfiguration of the system during concurrent maintenance, for example, the device may still be located by its reported physical location, even though its logical address may have changed. As stated in U.S.C. 102 rejection from the first action, Berglund discloses a method and computer readable medium that correlates physical addresses to logical addresses (column 4, lines 25-30 and column 5, lines 1-27), in other words, a mapping of physical to logical addresses. With a reported error, the logical address is changed, e.g., removed and replaced with a new one, hence, the mapping to the physical address is also changed.

Art Unit: 2182

3. Applicant's arguments, filed 11/17/2003, with respect to U.S.C. 112 2nd rejections have been fully considered and are persuasive. The rejection of U.S.C. 112 2nd paragraph has been withdrawn.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by No. 6,044,411 to Berglund et al (hereafter Berglund).

In reference to Claims 1, 6 and 11, Berglund discloses a method and computer readable medium to associate data with physical devices comprising the steps of:

- a) starting with a first SCSI enclosure service data location, where Berglund's method and computer readable medium goes sequentially down the network of devices defining unique enclosure addresses in the enclosure and the backplanes within each enclosure, starting with the first device (column 7, lines 40-48 and column 7, lines 6-10 of Berglund).
- b) comparing one or more addresses, where Berglund's method and computer readable medium correlates physical addresses to logical addresses (column 4, lines 25-30 and column 5, lines 1-27).
- c) mapping correlating addresses in response to said comparison, where Berglund's method and computer readable medium correlates physical addresses to logical addresses from comparison (column 4, lines 25-30 and column 5, lines 1-27).

Art Unit: 2182

d) removes at least one SES device and drive which have been successfully mapped from the physical address map (column 4, lines 40-45), utilized for further mapping to allow for another mapping of a previous failed mapping of an enclosure. Berglund discloses a method and computer readable medium upon which "concurrent maintenance" occurs that deals with the changing of logical addresses when a device error is reported (column 8, lines 13-21) and therefore must remove the original logical addresses.

In reference to Claims 2, 7 and 12, Berglund discloses a method and computer readable medium that performs comparison in the forward direction, e.g., sequentially down the network of devices (column 7, lines 40-48).

In reference to Claims 3, 4, 8, 9, 13 and 14, Berglund discloses a method and computer readable medium that sets the starting point, the anchor, of the comparison as the first device (column 7, lines 40-48 and Fig.2, element 217A).

In reference to Claim 5, 10 and 15, it is inherent in the method and computer readable medium of Berglund for marking when one or more devices is successfully or unsuccessfully (ambiguously) mapped. Berglund discloses the ability to assign a unique logical address for each enclosure, backplane, and device and the ability to accommodate the situations where a device error occurs and the device may still be located by its reported physical address, but the logical address may need to be changed (column 8, lines 15-21). The logical address is identified when there is an error, hence marked as ambiguous by some status signal, and when there is no error, no indication for changing the logical address and thereby marked as mapped successfully.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan S Chen whose telephone number is 703-605-0708. The examiner can normally be reached on M-F 8:30am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A Gaffin can be reached on 703-308-3301. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

ASC
1/9/2003


JEFFREY GAFFIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100